CLAIMS

What is claimed is:

1	1.	A method	comprising:

- 2 storing a first list of hardware registers;
- 3 receiving video data at an application program;
- 4 receiving a second list of hardware registers from a device driver;
- determining whether the first list of hardware registers matches the
- 6 second list of hardware registers; and
- if so, streaming the video data to a video decoder.
- 1 2. The method of claim 1 further comprising precluding the streaming of the
- video data to the video decoder if the first list of hardware registers does not
- 3 match the second list of hardware registers.
- 1 3. The method of claim 1 further comprising:
- initializing the device driver upon startup of a computer system
- forwarding the first list of hardware registers from the device driver to a
- 4 first security module; and
- 5 verifying, at the first security module, a digital signature of the device
- 6 driver prior to storing the first list of hardware registers.
- 1 4. The method of claim 3 further comprising encrypting the first list of

- 2 hardware registers prior to storing the first list of hardware registers.
- 1 5. The method of claim 1 further comprising:
- the application program calling an interface upon receiving the video
- 3 data;
- 4 the interface requesting the second list of hardware registers from the
- 5 device driver; and
- 6 mapping the second list of hardware registers to a virtual resource map
- 7 that is accessible by the application.
- 1 6. The method of claim 5 further comprising:
- the interface calling a second security module to verify the second list of
- 3 hardware registers; and
- 4 the second security module calling the first security module in order to
- 5 verify the virtual resource map.
- 1 7. The method of claim 6 further comprising verifying, at the second security
- 2 module, a digital signature of the interface prior to calling the first security
- 3 module.
- 1 8. The method of claim 7 wherein the second security module calls the first
- 2 security module via a secure link.
- 1 9. A computer system comprising:
- a player application that receives data content;

 $\mathbf{x} \in \mathbb{S}^{2}$

- a decoder that stores and decodes the data content received at the player,
- 4 the decoder including hardware registers to store the data content;
- 5 a driver, coupled to the decoder, that allocates the hardware registers
- 6 within for access by the player application; and
- 7 a first security module, coupled to the driver, that secures a first list of
- 8 resources corresponding to the hardware registers to prevent unauthorized
- 9 access of the data content within the hardware registers.
- 1 10. The computer system of claim 9 wherein the first security module verifies
- the integrity of the driver via digital signatures prior to receiving the first list of
- 3 resources.
- 1 11. The computer system of claim 9 further comprising an interface, coupled
- 2 to the player application, the driver and the decoder, that decrypts the content
- 3 the data content prior to the data content being stored in the hardware registers.
- 1 12. The computer system of claim 11 wherein the driver verifies the integrity
- 2 of the interface via digital signatures and public/private key technologies.
- 1 13. The computer system of claim 11 further comprising a second security
- 2 module coupled to the interface and the first security module.
- 1 14. The computer system of claim 13 wherein the second security module
- 2 receives a second list of resources from the interface whenever the player
- application is to release the data content from the hardware registers.

- 1 15. The computer system of claim 14 wherein the second security module
- 2 retrieves the first list of resources from the first security module and compares
- 3 the first list of resources to the second list of resources.
- 1 16. The computer system of claim 15 wherein the data content is released
- 2 from the hardware registers if the second list of resources matches the first list of
- 3 resources.
- 1 17. The computer system of claim 13 wherein the connection between the first
- 2 security module and the second security module is secured by a random number
- 3 secret key system.
- 1 18. An article of manufacture including one or more computer readable
- 2 media that embody a program of instructions, wherein the program of
- instructions, when executed by a processing unit, causes the processing unit to:
- 4 store a first list of hardware registers;
- 5 receive video data at an application program;
- 6 receive a second list of hardware registers from a device driver;
- 7 determine whether the first list of hardware registers matches the second
- 8 list of hardware registers; and
- 9 if so, stream the video data to a video decoder.
- 1 19. The article of manufacture of claim 18 when executed by a processing
- 2 unit, further causes the processing unit to preclude the streaming of the video

- data to the video decoder if the first list of hardware registers does not match the
- 4 second list of hardware registers.
- 1 20. The article of manufacture of claim 18 when executed by a processing
- 2 unit, further causes the processing unit to:
- initialize the device driver upon startup of a computer system
- 4 forward the first list of hardware registers from the device driver to a first
- 5 security module; and
- 6 verify, at the first security module, a digital signature of the device driver
- 7 prior to storing the first list of hardware registers.
- 1 21. The article of manufacture of claim 20 when executed by a processing
- 2 unit, further causes the processing unit to encrypt the first list of hardware
- 3 registers prior to storing the first list of hardware registers.
- 1 22. The article of manufacture of claim 18 when executed by a processing
- 2 unit, further causes:
- the application program to call an interface upon receiving the video data;
- 4 the interface to request the second list of hardware registers from the
- 5 device driver; and
- 6 mapping the second list of hardware registers to a virtual resource map
- 7 that is accessible by the application.
- 1 23. The article of manufacture of claim 22 when executed by a processing

- 2 unit, further causes:
- 3 the interface to call a second security module to verify the second list of
- 4 hardware registers; and
- 5 the second security module to call the first security module in order to
- 6 verify the virtual resource map.
- 1 24. The article of manufacture of claim 23 when executed by a processing
- 2 unit, further causes verifying, at the second security module, a digital signature
- 3 of the interface prior to calling the first security module.